

Addendum to Archaeological Survey Report- Maritime Archeology

(SFOBB)San Francisco-Oakland Bay Bridge East Span
Seismic Safety Project

December 6, 1999

This Memorandum Report was
Prepared for:
Mara Melandry, Senior Environmental Planner/Caltrans
Janet Pape, Archeology Manager/Caltrans

Prepared by:
Jim Allan of William Self Associates



Memorandum

date: December 6, 1999

to: Mara Melandry, Senior Environmental Planner/Caltrans
Janet Pape, Archaeology Manager/Caltrans

from: Jim Allan

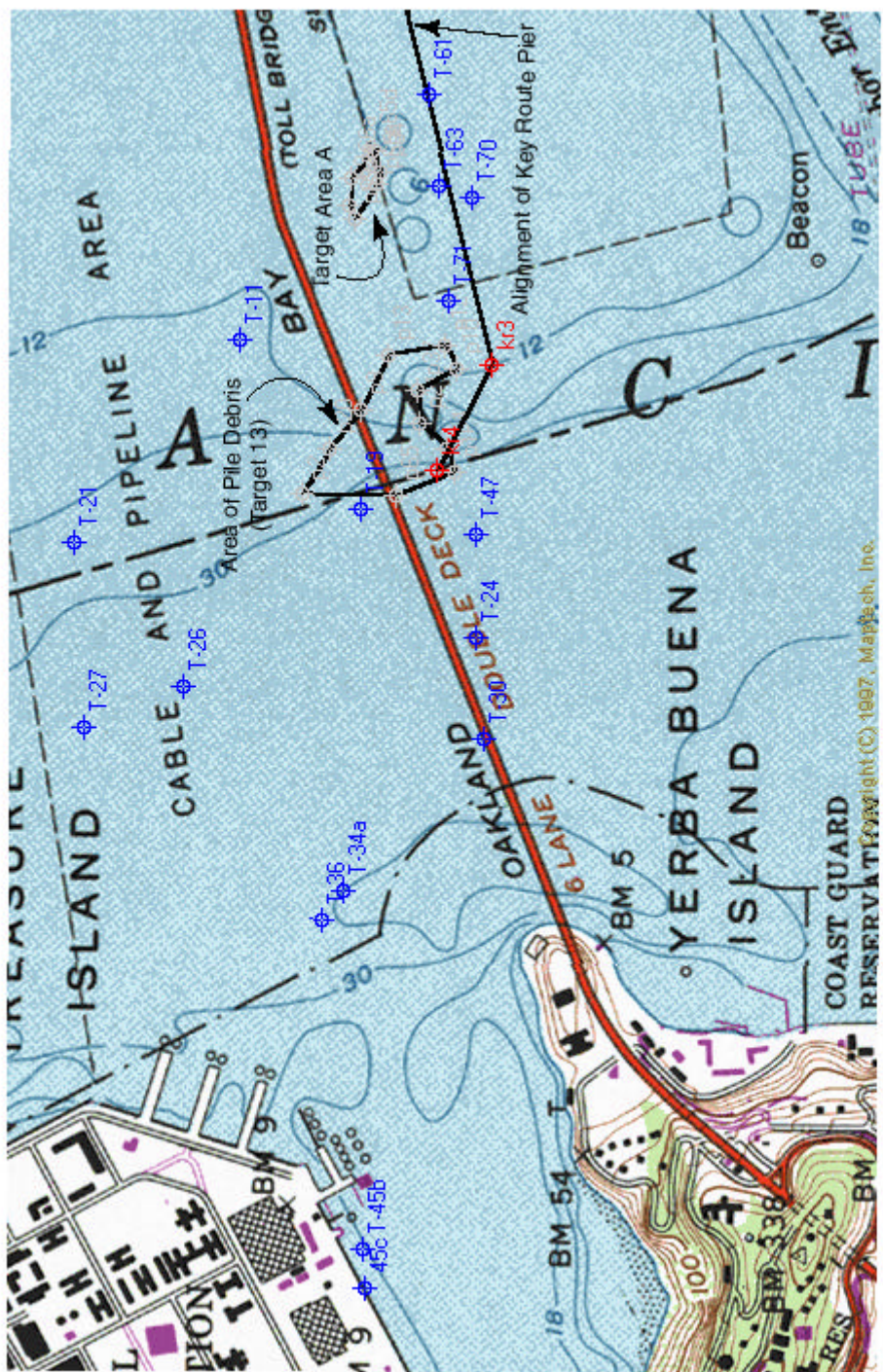
re: Addendum to SFOBB Archeological Survey Report-Maritime Archeology

Attached please find two maps depicting the locations of selected targets identified during remote sensing surveys of the SFOBB maritime archaeology APE. Accompanying the base maps is a map detail depicting the estimated boundary of target 13, the debris field associated with the head of the Key System pier. Also attached are tables that provide specific locations for the targets, expressed in latitude and longitude.

The area designated as Target 13 is the estimated boundary of the debris field associated with the Key System's terminal and pier head. Many of the targets that are scattered to the east are also apparently associated with the pier, although they are of a more isolated nature. The area designated as "Target Area A" is a concentration of isolated targets, most of which appear to be pilings associated with the pier. The attached table provides specific location coordinates for each target within this area, but they are not depicted as individual locations on the maps since they are clustered close together. Identifying each target would have cluttered the map with labels that would have been unreadable.

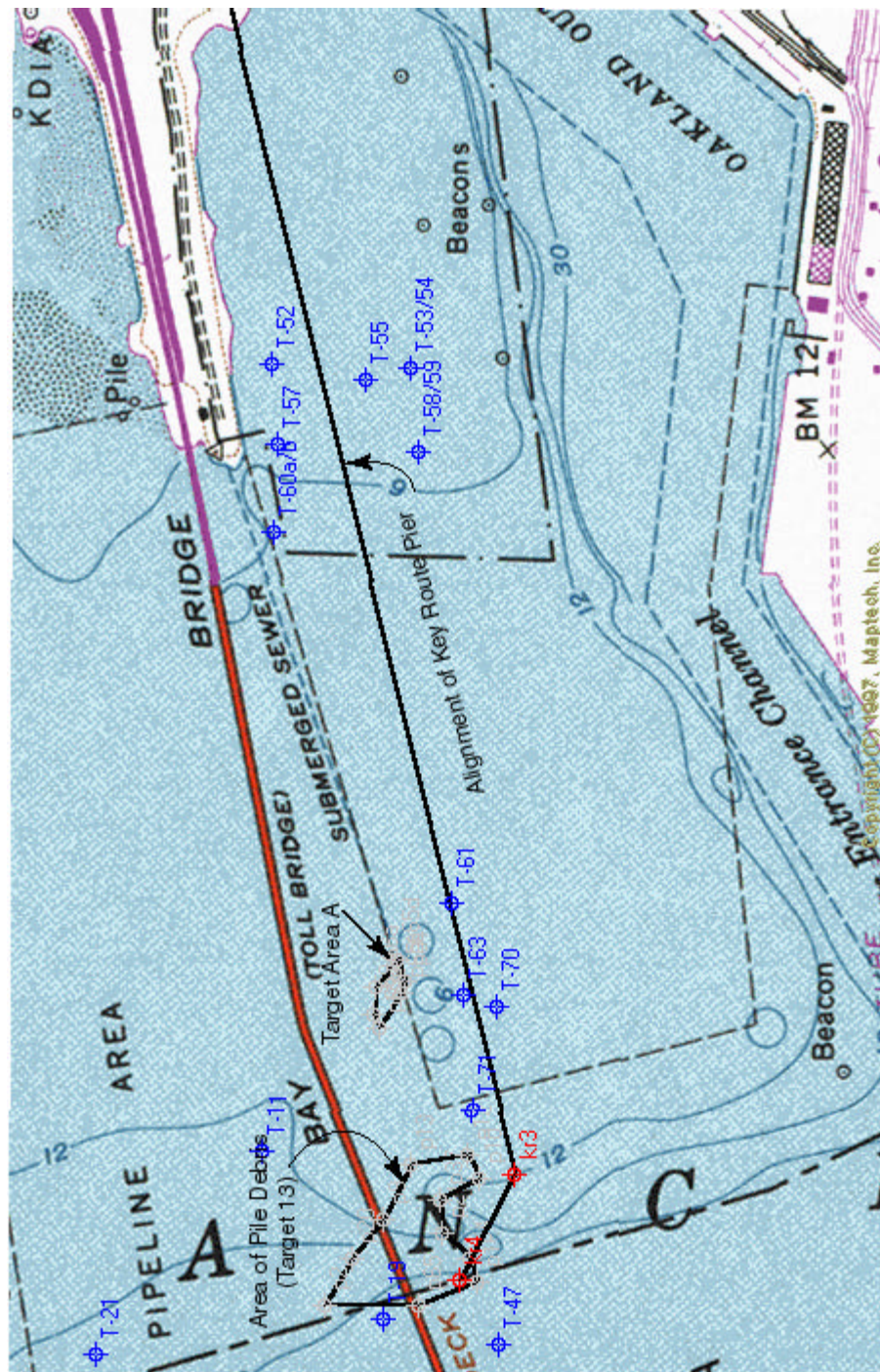
The alignment of the Key System pier is an estimation derived by transposing Lat/Lon positions from historic maps to the modern USGS topo. Because of datum conflicts between the maps, this depiction should be considered as a reasonably accurate estimate that may have to be adjusted following further analysis of the historic literature. I suspect if adjustments are found to be necessary, they will entail moving the alignment slightly to the north, so the terminus of the pier is closer to the center of the debris field identified as Target 13.

Please give me a call if you have any questions on the enclosed.



Oakland West USGS 7.5' Topo
Scale Approximately 1 inch=985 feet

Acoustic Targets Within Archaeological APE
William Self Associates



Oakland West USGS 7.5' Topo
Scale Approximately 1 inch=985 feet

Acoustic Targets in Archaeological APE
William Self Associates



Boundary Points for Estimated
Location of Target 13
William Self Associates

SFOBB: Coordinates for Boundary of Target 13

Target 13		
Point	Latitude	Longitude
1	37d 48.966	122d 20.853
4	37d 48.974	122d 20.821
21	37d 49.003	122d 20.788
37	37d 49.005	122d 20.744
10	37d 48.963	122d 20.715
12	37d 48.976	122d 20.683
13	37d 49.036	122d 20.696
9	37d 49.065	122d 20.770
20	37d 49.098	122d 20.821
2	37d 49.127	122d 20.883
65	37d 49.028	122d 20.884

SFOBB Submerged Debris Target Locations			
Target	Latitude	Longitude	Description
11	37d 49.194	122d 20.679	Small concrete block (~14" x 14" x 6") in bottom depression
19	37d 49.065	122d 20.901	Concrete block ((~7' x 4' x 1.5') in depression. 3" dia. Iron pipe protruding from ends.
21	37d 49.370	122d 20.948	Possible anchor chain or cable, lying in trough ~125' long
24	37d 48.943	122d 21.073	Large concrete or steel block (~ 4' wide) with steel I-beams attached. Target is ~ 12' long, lies in a depression
26	37d 49.259	122d 21.138	Deep trough with exposed fiber optic or telephone cable running down the length.
27	37d 49.358	122d 21.195	Three, nested railroad trucks, ~ 5' wide and 4' in diameter
30	37d 48.935	122d 21.210	Possible steel girder, ~3 to 4' x 20'
34a	37d 49.083	122d 21.413	Small unidentifiable object. May be non-conforming bottom irregularity
36	37d 49.107	122d 21.452	Small, enigmatic object (~.5 m x 1.5 m) projecting into water column. Possible abandoned channel marker
45b	37d 49.060	122d 21.891	Steel object, slightly elliptical in shape, projects above bottom ~3' -- ~25' in length
45c	37d 49.059	122d 21.944	Possible wharf fragment. Steel frame. ~12" x 6" x 60' long w/ 5 perpendiculars.
47	37d 48.946	122d 20.941	Small enigmatic target with cable or pile lying adjacent to it.
52	37d 49.186	122d 19.627	Possible pile, ~4m long. Lying flat on bottom.
53	37d 49.040	122d 19.632	Possible pile, ~5m long. Lying flat on bottom.
54	37d 49.048	122d 19.644	Possible pile, ~8m long. Lying flat on bottom.
55	37d 49.086	122d 19.648	Possible pile, ~6m long. Lying flat on bottom.
56	37d 39.179	122d 19.735	Elliptical, hard target. ~1m x 2.5m. Appears to be lying flat on bottom, immediately next to target 57
57	37d 349.179	122d 19.735	Round, hard target, ~2m in diameter. No measurable surficial expression.
58/59	37d 49.030	122d 19.746	Pile array. May be associated with cable crossing platform
60a	37d 49.184	122d 19.853	Pile array, considerable surficial expression. May be associated with platform/signage.
60b	37d 49.185	122d 19.843	Pile array, considerable surficial expression. May be associated with platform/signage.
61	37d 48.994	122d 20.346	Elliptical target, ~2m x 5m. No measurable surficial expression. In alignment of Key System pier
62	37d 49.053	122d 20.437	Array of four small targets, possible pile remains. No measurable surficial expression. In Target Area A
63	37d 48.981	122d 20.488	Possible small debris pile ~3m x 5m. Slight mounding above bottom surface.
64	37d 49.043	122d 20.452	Possible pile. Projects above bottom ~1m. In Target Area A
65a	37d 49.049	122d 20.442	Pile array (6). May project above bottom ~1.5m. In Target Area A
65b	37d 49.050	122d 20.439	Pile array (6). May project above bottom ~1.5m. In Target Area A
65c	37d 49.050	122d 20.431	Pile array (6). May project above bottom ~1.5m. In Target Area A
65d	37d 49.051	122d 20.423	Pile array (6). May project above bottom ~1.5m. In Target Area A
65e	37d 49.047	122d 20.458	Pile array (6). May project above bottom ~1.5m. In Target Area A
65f	37d 49.046	122d 20.467	Pile array (6). May project above bottom ~1.5m. In Target Area A
66a	37d 49.074	122d 20.460	Pile. May project above bottom ~1-1.5m. In Target Area A
66b	37d 49.075	122d 20.475	Pile. May project above bottom ~1-1.5m. In Target Area A
68a	37d 49.044	122d 20.467	Possible pile array (2-3). No measurable surficial expression.
68b	37d 49.046	122d 20.453	Possible pile array (2-3). No measurable surficial expression.
69a	37d 49.076	122d 20.494	Possible pile array. In Target Area A. Projects above bottom ~1m
69b	37d 49.077	122d 20.488	Possible pile array. In Target Area A. Projects above bottom ~1m
69c	37d 49.071	122d 20.513	Possible pile array. In Target Area A. Projects above bottom ~1m
70	37d 48.946	122d 20.485	Hard target, lying on bottom. ~2.5m x 5m. Possible discarded wire rope/cable.
71	37d 48.971	122d 20.624	Possible pile array, lumber scatter in ~20m x 20m area. Bottom scour suggests debris is embedded in bottom.

Pls. read the Addendum to Archaeological Survey Report-Maritime
Archaeology dated March 2000 and August 17, 2000
Filenames archaeo3 & archaeo4